

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011

Permit 322195

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address Tascosa Energy Partners, L.L.C 901 W. Missouri Ave Midland, TX 79701		2. OGRID Number 329748
		3. API Number 30-015-49806
4. Property Code 333128	5. Property Name Bonneville 16 State	6. Well No. 302H

**7. Surface Location**

UL - Lot D	Section 16	Township 20S	Range 27E	Lot Idn	Feet From 1320	N/S Line N	Feet From 250	E/W Line W	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot A	Section 16	Township 20S	Range 27E	Lot Idn A	Feet From 1296	N/S Line N	Feet From 100	E/W Line E	County Eddy
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**9. Pool Information**

AVALON;BONE SPRING, NORTH	3712
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3292
16. Multiple N	17. Proposed Depth 12751	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 9/1/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	500	734	0
Int1	12.25	9.625	36	2500	1153	0
Prod	8.5	5.5	20	12751	2181	0

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	CTI
Blind	5000	5000	CTI
Pipe	5000	5000	CTI

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.  
I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

Printed Name: Electronically filed by Kelly M Hardy

Title: Land Manager

Email Address: khardy@tascosaep.com

Date: 8/3/2022

Phone: 432-695-6970

**OIL CONSERVATION DIVISION**

Approved By: Katherine Pickford

Title: Geoscientist

Approved Date: 8/5/2022

Expiration Date: 8/5/2024

Conditions of Approval Attached

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 49806		Pool Code <del>96381</del> 3712	Pool Name AVALON;BONE SPRING	North
Property Code 333128	Property Name BONNEVILLE 16 STATE			Well Number #302H
OGRID No. 329748	Operator Name TASCOSA ENERGY PARTNERS, LLC			Elevation 3292'

### Surface Location

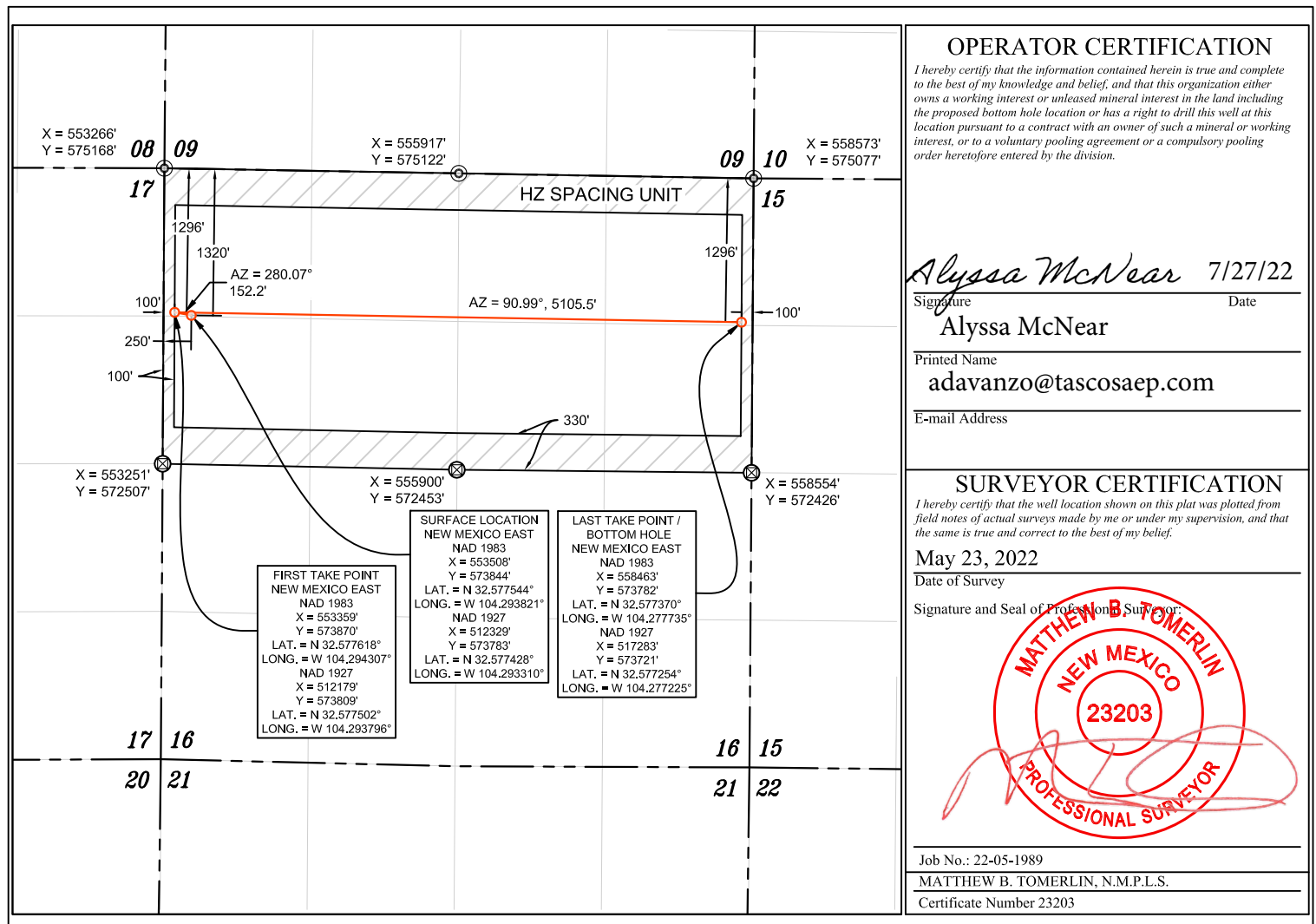
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	20 S	27 E		1320	NORTH	250	WEST	EDDY

### Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	20 S	27 E		1296	NORTH	100	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320.00			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Conditions

Permit 322195

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: Tascosa Energy Partners, L.L.C [329748] 901 W. Missouri Ave Midland, TX 79701	API Number: 30-015-49806
	Well: Bonneville 16 State #302H

OCD Reviewer	Condition
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
kpickford	The pool assignment for this well has been corrected on the C-102. Subsequent sundries must reflect the correct pool.

Bonneville 16 State # 3 Directional

MITCHELL ENGINEERING PROGRAMS

**LONG's METHOD OF SURVEY COMPUTATION****OBLIQUE CIRCULAR ARC INTERPOLATION**

	MD OF INTERPOLATION DEPTH,(feet)
#N/A	TVD COORDINATE OF THE DEPTH (feet)
#N/A	N/S COORDINATE OF DEPTH (feet)
#N/A	E/W COORDINATE OF DEPTH (feet)

3 D DISTANCE BETWEEN STATION A AND STATION B

**DISTANCE TABLE**

STATION A	STATION B
0.00	ft

**TABLE OF SURVEY STATIONS**

Calculator =

STA #	ΔMD ft	INCL deg	AZIM deg	MD ft	TVD ft	N+/S- ft	E+/W- ft	DLS deg/100FT
1	TIE POINT =>	0	0	2500.00	2500.00	0.00	0.00	-
2	100	2	276.84	2600.00	2599.98	0.21	-1.73	2.00
3	100	4	276.84	2700.00	2699.84	0.83	-6.93	2.00
4	100	4	276.84	2800.00	2799.59	1.66	-13.85	0.00
5	100	4	276.84	2900.00	2899.35	2.49	-20.78	0.00
6	100	4	276.84	3000.00	2999.11	3.32	-27.71	0.00
7	2100	4	276.84	5100.00	5093.99	20.77	-173.15	0.00
8	100	4	276.84	5200.00	5193.75	21.60	-180.08	0.00
9	100	4	276.84	5300.00	5293.50	22.43	-187.00	0.00
10	100	4	276.84	5400.00	5393.26	23.26	-193.93	0.00
11	100	2	276.84	5500.00	5493.12	23.89	-199.13	2.00
12	100	0	276.84	5600.00	5593.10	24.09	-200.86	2.00
13	1590	0	0	7190.00	7183.10	24.09	-200.86	0.00
14	100	0	90	7290.00	7283.10	24.09	-200.86	0.00
15	100	10	90	7390.00	7382.59	24.09	-192.16	10.00
16	100	20	90	7490.00	7479.06	24.09	-166.31	10.00
17	100	30	90	7590.00	7569.58	24.09	-124.10	10.00
18	100	40	90	7690.00	7651.39	24.09	-66.81	10.00
19	100	50	90	7790.00	7722.01	24.09	3.81	10.00
20	100	60	90	7890.00	7779.29	24.09	85.62	10.00
21	100	70	90	7990.00	7821.50	24.09	176.14	10.00
22	100	80	90	8090.00	7847.35	24.09	272.61	10.00
23	78	87.63	90	8168.00	7855.75	24.09	350.09	9.78
24	100	87.63	90	8268.00	7859.88	24.09	450.01	0.00
25	100	87.63	90	8368.00	7864.02	24.09	549.92	0.00
26	4200	87.63	90	12568.00	8037.70	24.09	4746.33	0.00
27	100	87.63	90	12668.00	8041.84	24.09	4846.24	0.00
28	83	87.63	90	12751.00	8045.27	24.09	4929.17	0.00

Well name:

**Bonneville 16 State # 302H**Operator: **Tascosa Energy Partners, LLC**String type: **Surface Casing (500)****Eddy County, New Mexico. SHL = 1320 FNL & 250 FWL, Sec 16, T20S, R27E****BHL = 1,296 FNL & 100 FEL, Sec 16, T20S, R27E****Design parameters:****Collapse**

Mud weight: 9.00 ppg

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

DF 1.125

**Burst:**

DF 1.10

**Environment:**

H2S considered? No

Surface temperature: 75.00 °F

BHTemp 79 °F

Temp gradient: 0.80 °F/100ft

Minimum sec length: 500 ft

Minimum Drift: 12.25 in

Cement top: Surface

**Burst**

Max anticipated surface pressure = 250.00 psi

Internal gradient: = 0.12 psi/ft

Calculated BHP = 310.00 psi

**Tension:**

8 Rd STC: 1.80

8 Rd LTC: 1.80

Buttress: 1.60

Premium: 1.50

Body yield: 1.50

Non-directional string.

(J)

(J)

(J)

(J)

(B)

**Re subsequent strings:**

Next setting depth: 3,000.00 ft

Next mud weight: 10.00 ppg

Next setting BHP: 1,482.00 psi

Fracture mud wt: 11.00 ppg

Safety Factor Injection 1.00 ppg

Fracture depth: 500.00 ft

Injection pressure 312.00 psi

**No backup mud specified.**

Tension is based on buoyed wgt.

Neutral pt: 453.00 ft

**Maximum Lift using 14.8 ppg cmt to surface with 8.5 ppg mud filled csg= 23,014 lbs lift. String wgt = 24,600 lbs. Chain down casing prior to cmt job for Safety.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)	Internal Capacity (bbls)
1	45	13.375	48.00	H-40	ST&C	500	500	12.59	440.9	78.54

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	234	740	3.16	312	1730	5.54	24	322	13.417

Prepared  
by: Richard Wright

Phone: (432) 695 6970  
FAX: (432) 695 6973

Date: 05/02/22  
Midland, Texas

**Remarks:**

Collapse is based on a vertical depth of 500 ft, a mud weight of 9.0 ppg. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

**Bonneville 16 State # 302H**Operator: **Tascosa Energy Partners, LLC**String type: **Intermediate Casing (3,000)****Eddy County, New Mexico. SHL = 1320 FNL & 250 FWL, Sec 16, T20S, R27E****BHL = 1,296 FNL & 100 FEL, Sec 16, T20S, R27E****Design parameters:****Collapse**

Mud weight: 9.50 ppg

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

DF 1.125

**Burst:**

DF 1.15

**Environment:**

H2S considered? No  
 Surface temperature: 75.00 °F  
 BH Temp 99 °F  
 Temp Gradient 0.80 °F/100ft  
 Minimum Sec Length 1500 ft  
 Minimum Drift: 8.75 in  
 Cement top: Surface

**Burst**

Max anticipated surface  
 pressure: 1,902.00 psi

Internal gradient: 0.12 psi/ft

Calculated BHP 2,262.00 psi

No backup mud specified.

**Tension:**

8 Rd STC: 1.80

8 Rd LTC: 1.80

Buttress: 1.60

Premium: 1.50

Body yield: 1.50

Non-directional string.

(J)

(J)

(J)

(J)

(B)

**Re subsequent strings:**

Next setting depth: 12,818 ft MD  
 Next setting depth: 7,880 ft TVD  
 Next mud weight: 9.5 ppg  
 Next setting BHP: 3,893 psi  
 Fracture mud wt: 13.5 ppg  
 Safety Factor-Injection 1 ppg  
 Fracture depth: 3000 ft  
 Injection pressure 2,262 psi

Tension is based on buoyed wgt.

Neutral pt: ± 2578 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	ID Diameter (in)	Internal Capacity (bbls)
1	3000	9.625	36	J-55	LT&C	3000	3000	8.796	8.921	232
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor	
1	1482	2020	1.36	1902	3520	1.85	108	453	4.19 J	

Prepared

by: Richard Wright

Phone: (432) 695 6970

FAX: (432) 695 6973

Date: 05/02/22

Midland, Texas

**Remarks:**

Collapse is based on a vertical depth of 3,000 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

**Bonneville 16 State # 302H**Operator: **Tascosa Energy Partners, LLC**String type: **Production Casing (± 12,751 ft MD) "FRAC"****Eddy County, New Mexico. SHL = 1320 FNL & 250 FWL, Sec 16, T20S, R27E****BHL = 1,296 FNL & 100 FEL, Sec 16, T20S, R27E****Design parameters:****Collapse**

Mud weight:

Design is based on evacuated pipe.

**Minimum design factors:**

9.50 ppg

**Collapse:**

DF 1.125

**Burst:**

DF 1.12

**Environment:**

H2S considered?

No

Surface temperature:

75.00 °F

Bottom hole temp:

141 °F

Temperature gradient:

0.80 °F/100ft

Minimum section lgth:

2,500 ft

Minimum Drift:

4.653 in

Cement top:

Surface ft

**Burst**

Max anticipated surface

**pressure FRAC @ RATE:****10,000.00** psi

Internal gradient:

0.000 psi/ft

Calculated BHP

10,000.00 psi

backup mud specified.

0.000 psi/ft

Net Injection Pressure Surface

10,000.00 psi

Net Injection Pressure TVD

4,771.00 psi

Annular surface PSI

0 psi

Frac Gradient

12.50 ppg

Frac Gradient

0.65 psi/ft

**Tension:**

8 Rd STC:

1.80 (J)

8 Rd LTC:

1.80 (J)

Buttress:

1.60 (J)

Premium:

1.50 (J)

Body yield:

1.50 (B)

Directional Info - Build &amp; Hold

KOP #1 ±

2,500 ft

KOP #2 ±

7,290 ft

Departure at shoe:

4,929 ft

Maximum dogleg:

10 °/100ft

Inclination at shoe:

87.63 °

Tension is based on buoyed weight. (.85474 factor)

Neutral pt: **± 6,626 ft assumes no friction calc from mid pt of curve**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	ID Diameter (in)	Internal Capacity (bbls)
1	12,751	5.5	20	CYP-110	BTC Semi Prem	8,045	12,751	4.653	4.778	283.3

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3,974	12200	3.07	10000	12360	1.236	355	641	1.8 yield

100K over pull at TD

Prepared

by: Richard Wright

Phone: (432) 695 6970

FAX: (432) 695 6973

Date: 05/02/22

Midland, Texas

**Remarks:**

Collapse is based on a vertical depth of 8,045 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a tensile load which is added to the axial load.





**Tascosa Energy Partners, LLC  
Bonneville 16 State  
Hydrogen Sulfide Contingency Plan  
For Drilling/Workover/Facility  
SEC 16, T20S, R27E, Eddy County, New Mexico**

**Bonneville 16 State wells and their anticipated facility are not expected to have Hydrogen Sulfide releases. However, there may be Hydrogen Sulfide production in the nearby area. There are no occupied dwellings within a mile of the area but a contingency plan has been orchestrated. Tascosa Energy Partners, LLC will have a Company Representative living on location throughout the drilling and completion of this well. If Hydrogen Sulfide is detected or suspected, monitoring equipment will be available for monitoring and/or testing. An unmanned H<sub>2</sub>S safety trailer and monitoring equipment will also be station on location during the drilling operation below the Surface Casing depth of  $\pm$  500 ft. to total drilling depth of  $\pm$  13,000 ft.**

**Tascosa Energy Partners, LLC  
Bonneville 16 State  
Hydrogen Sulfide Contingency Plan  
For Drilling/Workover/Facility  
SEC 16, T20S, R27E, Eddy County, New Mexico**

**EMERGENCY CALL LIST: (Start and continue until ONE of these people have been contacted)**

	<b>OFFICE</b>	<b>MOBILE</b>	<b>HOME</b>
<b>Tascosa Energy ,LLC.</b>	<b>432 695-6970</b>		
<b>Alyssa McNear</b>		<b>720 244 4417</b>	
<b>Jeff Birkelbach</b>	<b>432 695-6970</b>	<b>432 553 0391</b>	
<b>Brian Kirkland</b>		<b>432 770-2325</b>	
<b>Kevin Herrmann</b>	<b>432 695-6970</b>	<b>432 254-9106</b>	

**EMERGENCY RESPONSE NUMBERS:**

<b>State Police:</b>	<b>Eddy County</b>		<b>575 748 9718</b>
<b>State Police:</b>	<b>Lea County</b>		<b>575 392 5588</b>
<b>Sheriff</b>	<b>Eddy County</b>		<b>575 746 2701</b>
<b>Sheriff</b>	<b>Lea County</b>		
<b>Emergency Medical Ser</b>	<b>Eddy County</b>		<b>911 or 575 746 2701</b>
<b>(Ambulance)</b>	<b>Lea County</b>	<b>Eunice</b>	<b>911 or 575 394 3258</b>
<b>Emergency Response</b>	<b>Eddy County SERC</b>		<b>575 476 9620</b>
<b>Artesia Police Dept</b>			<b>575 746 5001</b>
<b>Artesia Fire Dept</b>			<b>575 746 5001</b>
<b>Carlsbad Police Dept</b>			<b>575 885 2111</b>
<b>Carlsbad Fire Dept</b>			<b>575 885 3125</b>
<b>Loco Hills Police Dept</b>			<b>575 677 2349</b>
<b>Jal Police Dept</b>			<b>575 395 2501</b>
<b>Jal Fire Dept</b>			<b>575 395 2221</b>
<b>Jal ambulance</b>			<b>575 395 2221</b>
<b>Eunice Police Dept</b>			<b>575 394 0112</b>
<b>Eunice Fire Dept</b>			<b>575 394 3258</b>

**Tascosa Energy Partners, LLC**  
**Bonneville 16 State**  
**Hydrogen Sulfide Contingency Plan**  
**For Drilling/Workover/Facility**  
 SEC 16, T20S, R27E, Eddy County, New Mexico

<b>Eunice Ambulance</b>		<b>575 394 3258</b>
<b>Hobbs Police Dept</b>		
<b>NMOCD</b>	<b>District 1 (Lea, Roosevelt, Curry)</b>	<b>575 393 6161</b>
	<b>District 2 ( Eddy Chavez)</b>	<b>575 748 1283</b>
<b>BLM Carlsbad</b>		<b>575 234 5972</b>
<b>BLM Hobbs</b>		<b>575 393 3612</b>
<b>Lea County Information</b>		<b>575 393 8203</b>
<b>Midland Safety</b>	<b>Lea/Eddy County</b>	<b>432 520 3838</b> <b>888 262 4964</b>
<b>American Safety</b>	<b>Lea/Eddy County</b>	<b>575 746 1096</b> <b>575 393 3093</b>
<b>Halliburton</b>	<b>Artesia</b>	<b>800 844 8451</b>
	<b>Hobbs</b>	<b>800 844 8451</b>
	<b>Midland</b>	<b>800 844 8451</b>
<b>Wild Well Control</b>	<b>Midland</b>	<b>281 784 4700</b> <b>281 443 4873</b>

**Tascosa Energy Partners, LLC  
Bonneville 16 State  
Hydrogen Sulfide Contingency Plan  
For Drilling/Workover/Facility  
SEC 16, T20S, R27E, Eddy County, New Mexico**

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**Tascosa Energy Partners, LLC  
Bonneville 16 State  
Hydrogen Sulfide Contingency Plan  
For Drilling/Workover/Facility  
SEC 16, T20S, R27E, Eddy County, New Mexico**

**1. Hydrogen Sulfide Training**

**All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well**

- 1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S)**
- 2. The proper use and maintenance of personal protective equipment and life support systems.**
- 3. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.**
- 4. The proper techniques for first aid and rescue procedures**

**In addition, supervisory personnel will be trained in the following areas:**

- 1. The effects of H<sub>2</sub>S on metal components. If high tensile tubulars are to be used, personnel will be trained in the special maintenance requirements.**
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.**
- 3. The contents and requirements of H<sub>2</sub>S Drilling Operations Plan and the Public Protection plan.**

**There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.**

**2. H<sub>2</sub>S Safety Equipment and Systems**

**Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H<sub>2</sub>S. If H<sub>2</sub>S greater than 100 ppm is encountered in the gas stream we will shut-in and install H<sub>2</sub>S equipment.**

- 1. Well Control Equipment:**
  - a. Flare Line**
  - b. Choke manifold with remotely operated choke**
  - c. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.**

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- d. Auxiliary equipment to include; annular preventer, mud gas separator, rotating head.
2. Protective equipment for essential personnel:
  - a. Mark II Survive air 30 minute units located in the dog house and at the briefing areas.
3. H2S detection and monitoring equipment:
  - a. 2-portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
4. Visual warning systems:
  - a. Caution/Danger signs shall be posted on roads providing direct access to the location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate.
5. Mud Program:
  - a. The mud program has been designed to minimize the volume of H2S circulated to the surface.
6. Metallurgy:
  - a. All drill strings, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
7. Communications:
  - a. Company vehicles equipped with cellular telephone.

Tascosa Energy Partners, LLC has conducted a review to determine if an H2S contingency plan is required for the subject well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, **we do not believe that an H2S contingency plan is necessary**

**General H2S Emergency Actions:**

1. All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area"
2. If for any reason a person must enter the hazardous area, they must wear a SCBA (Self Contained Breathing Apparatus)
3. Always use the "buddy system"
4. Isolate the well/problem if possible
5. Account for all personnel
6. Display the proper colors warning all unsuspecting personnel of the danger at hand.
7. Contact the Company personnel as soon as possible if not at the location. ( use the enclosed call list as instructed

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**At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of the emergency response agencies and nearby residents.**

**EMERGENCY PROCEDURES FOR AN UNCONTROLLABLE RELEASE OF H<sub>2</sub>S**

1. All personnel will wear the self-contained breathing apparatus.
2. Remove all personnel to the "safe area". (always use the buddy system).
3. Contact company personnel if not on location.
4. Set in motion the steps to protect and or remove the general public to an upwind "safe area". Maintain strict security & safety procedures while dealing with the source.
5. No entry to any unauthorized personnel.
6. Notify the appropriate agencies: City Police-City Street (s)  
State Police- State Rd  
County Sheriff – County Rd.
7. Call the BLM &/or NMOCD

**PROTECTION OF THE GENERAL PUBLIC ( Radius of Exposure):**

- 100 ppm at any public area ( any place not associated with this site)
- 500 ppm at any public road ( any road which the general public may travel)
- 100 ppm radius of ¼ mile in New Mexico will be assumed if there is insufficient data to do the calculations, and there is a reasonable expectation that H<sub>2</sub>S could be present in concentrations greater than 100 ppm in the gas mixture

**CALCULATIONS FOR THE 100 PPM (ROE) "Pasquill-Gifford equation"**

**X = [(1.589) (mole fraction) (Q- volume in std cu ft)] to the power of (0.6258)**

**CALCULATION FOR THE 500 PPM ROE:**

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**$X = [(.4546) (\text{mole fraction}) (Q - \text{volume in std cu ft})]$  to the power of (0.6258)**

**Example:**

If a well/facility has been determined to have 150 / 500 ppm H<sub>2</sub>S in the gas mixture and the well/facility is producing at a gas rate of 100 MCFPD then:

150 ppm  $X = [(1.589) (.00015) (100,000 \text{ cfd})]$  to the power of (.6258)  
 $X = 7 \text{ ft}$

500 ppm  $X = [(.4546) (.0005) (100,000 \text{ cfd})]$  to the power of (.6258)  
 $X = 3.3 \text{ ft}$

**( These calculations will be forwarded to the appropriate District NMOCD office when Applicable)**

**PUBLIC EVACUATION PLAN:**

- 1. Notification of the emergency response agencies of the hazardous condition and implement evacuation procedures.
- A trained person in H<sub>2</sub>S safety, shall monitor with detection equipment the H<sub>2</sub>S concentration, wind and area exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. **(All monitoring equipment shall be UL approved, for use in class 1 groups A,B,C & D, Division 1, hazardous locations. All monitor will have a minimum capability of measuring H<sub>2</sub>S, oxygen, and flammable values).**
- Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- The company supervising personnel shall stay in communication with all agencies throughout the duration of the situation and inform such agencies when the situation has been contained and the affected area(s) is safe to enter.

**PROCEDURE FOR IGNITING AN UNCONTROLABLE CONDITION:**

- 1. Human life and/or property are in danger
- 2. There is no hope of bringing the situation under control with the prevailing conditions at the site.

**INSTRUCTION FOR IGNITION:**

- 1. Two people are required. They must be equipped with positive pressure, "self - contained breathing apparatus" and a "D" ring style full body, OSHA approved safety harness. Nonflammable rope will be attached.



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- 2. One of the people will be qualified safety person who will test the atmosphere for H<sub>2</sub>S, Oxygen & LFL. The other person will be the company supervisor; he is responsible for igniting the well.
- 3. Ignite up wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25 mm flare gun shall be used, with a  $\pm$  500 ft. range to ignite the gas.
- 4. Prior to ignition, make a final check for combustible gases.
- 5. Following ignition, continue with the emergency actions & procedures as before.

**A. All personnel shall receive proper H<sub>2</sub>S training in accordance with Onshore Order III.C.3.a.**

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

- Well control equipment
  - a. Flare line 100' from wellhead to be ignited by flare gun or automatic striker.
  - b. Choke manifold with a remotely operated choke.
  - c. Mud/gas separator
- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs — 4 packs shall be stored on the rig floor th sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H<sub>2</sub>S detection and monitoring equipment:

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The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.  
(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
  - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  - c. Two wind socks will be placed in strategic locations, visible from all angles.
- Mud program: **Only utilized if H2S has been detected**  
The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- Metallurgy: **Only utilized if H2S has been detected**
  - a. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
  - b. All elastomers used for packing and seals shall be H2S trim.
- Communication: **Only utilized if H2S has been detected**  
Communication will be via two way radio in emergency and company vehicles. Cell phones and land lines where available.

**USING SELF CONTAINED BREATHING AIR EQUIPMENT (SCBA):**

- (SCBA) SHOULD BE WORN WHEN ANY OF THE FOLLOWING ARE PERFORMED: **Only utilized if H2S has been detected**
  - Working near the top or on top of a tank
  - Disconnecting any line where H2S can reasonably be expected
  - Sampling air in the area to determine if toxic concentrations of H2S exist.
  - Working in areas where over 10 ppm on H2S has been detected.
  - At any time there is a doubt as the level of H2S in the area.
- All personnel shall be trained in the use of SCBA prior to working in a potentially hazardous location.
- Facial hair and standard eyeglasses are not allowed with SCBA.
- Contact lenses are never allowed with SCBA.

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- Air quality shall be continuously be checked during the entire operation.
- After each use, the SCBA unit shall be cleaned, disinfected, serviced and inspected
- All SCBA shall be inspected monthly.

**RESCUE AND FIRST AID FOR VICTIMS OF HYDROGEN SULFIDE (H<sub>2</sub>S) POISONING:**

- Do not panic
- Remain Calm & think
- Get on the breathing apparatus
- Remove the victim to the safe breathing area as quickly as possible. Up wind an uphill from source or cross wind to achieve upwind.
- Notify emergency response personnel.
- Provide artificial respiration and or CPR, as necessary
- Remove all contaminated clothing to avoid further exposure.
- A minimum of two personnel on location shall be trained in CPR and First Aid.

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### Hydrogen Sulfide (H<sub>2</sub>S) Toxic Effects

H<sub>2</sub>S is extremely toxic. The acceptable ceiling for eight hours of exposure is 10 ppm, which is .001% by volume. H<sub>2</sub>S is approximately 20% heavier than air (Sp. Gr= 1.19)(Air = 1) and H<sub>2</sub>S is colorless. It forms an explosive mixture with air between 4.3% and 46%. By volume hydrogen sulfide is almost as toxic as hydrogen cyanide and 5-6 times more toxic than carbon monoxide.

**Various Gases**

COMMON NAME	CHEMICAL ABBREV.	SPECIFIC GRVTY.	THRESHOLD LIMITS	HAZARDOUS LIMITS	LETHAL CONCENTRATIONS
Hydrogen Sulfide	H <sub>2</sub> S	1.19	10ppm 15 ppm	100 ppm/hr	600 ppm
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm/hr	300 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21	2 ppm	N/A	1000 ppm
Chlorine	CL <sub>2</sub>	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO <sub>2</sub>	1.52	5000 ppm	5%	10%
Methane	CH <sub>4</sub>	0.55	90,000	Combustible@ 5%	N/A

**Threshold Limit:** Concentrations at which it is believed that all workers may be repeatedly exposed, day after day without adverse effects.

**Hazardous Limit:** Concentrations that may cause death.

**Lethal Concentrations:** Concentrations that will cause death with short term exposure.

**Threshold Limit-** 10 ppm: NIOSH guide to chemical hazards.

#### PHYSICAL EFFECTS OF HYDROGEN SULFIDE:

CONCENTRATION	PHYSICAL EFFECTS
.001% 10 PPM	Obvious and unpleasant odor. Safe for 8 hour exposure
.005% 50 ppm	Can cause some flu like symptoms and can cause pneumonia
.01% 100 ppm	Kills the sense of smell in 3-15 minutes. May irritate the eyes and throat.
.02% 200 ppm	Kills the sense of smell rapidly. Severly irritates the eyes and throat. Severe flu like symptoms after 4 or more hours. May cause lung damage and or death.
.06% 600 ppm	Loss of consciousness quickly, death will result if not rescued promptly.



## **Bonneville 16 State DSU – Natural Gas Management Plan**

### **VI. Separation Equipment:**

Tascosa has sized a FWKO and a high pressure, 3-phase separator to allow for complete separation at our anticipated rates, with adequate retention times. Tank vapors will also be captured through a vapor recovery unit and sent to the DCP sales line through a compressor at the gathering station.

### **VII. Operational Practices:**

- a. Drilling Operations – Tascosa will ensure that a flare stack is set at least 100' from the wellbore during drilling operations. This flare stack will be properly sized to handle the maximum expected release, ensuring that all natural gas produced during drilling operations can be flared (unless there is an equipment malfunction or if venting is necessary for safety reasons).
- b. Completion Operations – Prior to flowback, Tascosa will ensure that the well is connected to a gathering system that can handle the expected gas volumes. During flowback, natural gas will be separated and flared until it is within the specs of the contracted gathering system (DCP).
- c. Production Operations – Tascosa will conduct weekly AVO inspections and tackle equipment failures with haste. The emergency flare on location will be equipped with an auto-ignition, capable of handling the maximum expected release. Sight glasses will be installed on all tanks to eliminate gas releases due to gauging through thief hatches. A VRU will also be installed to capture tank vapors and reduce waste. In preparation of a VRU failure or planned maintenance, a backup combustor will be placed at the facility.
- d. Performance Standards –
  - a. Tascosa will design completion and production equipment for maximum expected output and pressure to eliminate venting.
  - b. A properly sized flare stack will be placed at the facility with an automatic ignitor.
  - c. AVO inspections will be conducted at least once a week to prevent releases due to equipment failure. These inspections will be recorded for future review.
  - d. Tascosa is obligated to eliminate waste and will repair equipment failures as soon as possible.
- e. Measurement and Estimation – A meter will be placed on the combustor and the flare stack to ensure combusted gas readings are accurate during a release event. If for any reason a meter reading is unavailable, released volumes will be estimated and reported.



### **VIII. Best Management Practices:**

Tascosa will aim to conduct surface maintenance without venting or flaring as much as possible. If planned maintenance is prolonged due to wait times for labor and equipment, Tascosa will shut in the producing well to prevent excess emissions. Tascosa will also minimized venting during downhole operations.

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** Tascosa Energy Partners, LLC. **OGRID:** 329748 **Date:** 08/03/2022

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Bonneville 16 State #302H		D-16-20S-27E	1320 FNL, 250 FWL	640	2560	760

**IV. Central Delivery Point Name:** Catalina 30 [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Bonneville 16 State #302H		11/15/2022	12/10/22	03/01/2023	04/01/2023	04/05/2023

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

## **Section 2 – Enhanced Plan**

### **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### **IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

#### **X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.** ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.



### **Section 3 - Certifications**

**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.** ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### **Section 4 - Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Alyssa McNear</i>
Printed Name: Alyssa McNear
Title: Engineering Manger
E-mail Address: adavanzo@tascosaep.com
Date: 08/03/2022
Phone: 720-244-4417
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval: